

Qy	241	gtfgccctgfatcvgctgttctgtgtvgaaaactgtgctgtccggtcatcccttcacagtctgtccg	300
Dp	241	gtfgaccctgfatcvgctgttctgtgtvgaaaactgtgctgtccggtcatcccttcacagtctgtccg	300
Qy	301	gvgcacccggtccctgtgtctgtctgtaaaatacagatgtcccggtcatctatgtccaaactgtgctgtccg	360
Dp	301	gvgcacccggtccctgtgtctgtctgtaaaatacagatgtcccggtcatctatgtccaaactgtgctgtccg	360
Qy	361	acagtgcacagagtctcaaacgcgatctgtgcccgaagtcgcaagaaactgtggtatattcatctgcac	420
Dp	361	acagtgcacagagtctcaaacgcgatctgtgcccgaagtcgcaagaaactgtggtatattcatctgcac	420
Qy	421	tggtgtatctagcvgagcvgagcvgcgcgagcccttactctgttgccaaatgtgctgtcatcgacaga	480
Dp	421	tggtgtatctagcvgagcvgagcvgcgcgagcccttactctgttgccaaatgtgctgtcatcgacaga	480
Qy	481	agvgccacagatgctgtgtgtctgcgtctgcgaacactcaaacctcaacatgtttgagtcgcaacggt	540
Dp	481	agvgccacagatgctgtgtgtgtctgcgtctgcgaacactcaaacctcaacatgtttgagtcgcaacggt	540
Qy	541	ctggtvgaaaggtctaatgtcccgaagatctgagtgtgtctgcagacaacgagctgtggtccggtctgtg	600
Dp	541	ctggtvgaaaggtctaatgtcccgaagatctgagtgtgtgtctgcagacaacgagctgtggtccggtctgtg	600
Qy	601	ccccgtgtctgtctgtggtgagacaacgtgtcccccctgtgagcaagtctagcgtctgtactcccaagacg	660
Dp	601	ccccgtgtctgtctgtggtgagacaacgtgtcccccctgtgagcaagtctagcgtctgtactcccaagacg	660
Qy	661	aaagcatctacatctgtgcggccctgtgcggtctcttctgtctgtctagacagcgaaagcccatgtgc	720
Dp	661	aaagcatctacatctgtgcggccctgtgcggtctctcttctgtctgtctagacagcgaaagcccatgtgc	720
Qy	721	ctagagcccaaggtgtgaacaatgtgctgtgcctgcgaatactatctcgtgtgtgaaggtcagatgtctta	780
Dp	721	ctagagcccaaggtgtgaacaatgtgctgtgcctgcgaatactatctcgtgtgtgaaggtcagatgtctta	780
Qy	781	ccatctgcgcgcgcgcgcgcgcgtctgtctaccccaagagacatctgtgacatgtctgtgaaagtgtgac	840
Dp	781	ccatctgcgcgcgcgcgcgcgcgtctgtctaccccaagagacatctgtgacatgtctgtgaaagtgtgac	840
Qy	841	acaaacgcctccctgtctgtgaaaggtgtgvcgvcgagctgtccatctgtttctgtgcccggagcac	900
Dp	841	acaaacgcctccctgtctgtgaaaggtgtgvcgvcgagctgtccatctgtttctgtgcccggagcac	900
Qy	901	gcaacatgtgctctccctcaacctgtgcacagatgtgcgaagagccctgtatctcatctgtcgtatctgaaca	960
Dp	901	gcaacatgtgctctccctcaacctgtgcacagatgtgcgaagagccctgtatctcatctgtcgtatctgaaca	960
Qy	961	tggaagaagaatgtgctctgtgcgaaggtcgatctcaagacccctgtgtggccactactccaaacccg	1020
Dp	961	tggaagaagaatgtgctctgtgcgaaggtcgatctcaagacccctgtgtggccactactccaaacccg	1020
Qy	1021	agggcacaccgtctgtgtactctgtgacctgtggaccgtgtgaagcccatctgactcgtgtgtatctca	1080
Dp	1021	agggcacaccgtctgtgtactctgtgacctgtggaccgtgtgaagcccatctgactcgtgtgtatctca	1080
Qy	1081	aaagcgtgtatctccagaaagaaaggtctcccgagtcgcgcacgtgtcaaaagtacaggtgtgtgcccgtg	1140
Dp	1081	aaagcgtgtatctccagaaagaaaggtctcccgagtcgcgcacgtgtcaaaagtacaggtgtgtgcccgtg	1140
Qy	1141	ccgtctagccacagatctcagatctcgatctcgatctctgtgtgtgcagaagaaacggtctctgaacccaaa	1200
Dp	1141	ccgtctagccacagatctcagatctcgatctcgatctctgtgtgtgcagaagaaacggtctctgaacccaaa	1200
Qy	1201	agatgaaacaaagcccggtggaacaaagtctccgggtctctgtatctctctgtgtgtgtcccgatctcaat	1260
Dp	1201	agatgaaacaaagcccggtggaacaaagtctccgggtctctgtatctctctgtgtgtgtcccgatctcaat	1260
Qy	1261	agttctctagagctcgacccctgcgcagagcatgtgaagctgtggatctccacactgtgaccccaatgtccgaact	1320
Dp	1261	agttctctagagctcgacccctgcgcagagcatgtgaagctgtgggtctccacactgtgaccccaatgtccgaact	1320
Qy	1321	cagaagaatgaaacccggtatgagcgtgattgtgtgtgtgtgtgtgtcccatctgcagatgtgaaagtatgaa	1380

[illegible]

[illegible]

```

RESULT 3
US-10-135-807-13
; Sequence 13, Application US/10135807
; GENERAL INFORMATION:
; APPLICANT: The Secretary of State for Defence in Her Britannic Majesty's
; APPLICANT: Government of the United Kingdom of Great Britain and
; APPLICANT: Northern Ireland
; APPLICANT: Clark, Duncan Roy
; APPLICANT: Vincent, Suzanne P
; TITLE OF INVENTION: Amplification process
; FILE REFERENCE: CG/P/133/MOD
; CURRENT APPLICATION NUMBER: US/10/135,807
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: GB 0110501.4
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 6105
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: pTTQ18NHK
; OTHER INFORMATION: vector including the pase sequence
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3881, 4127)
; OTHER INFORMATION: n is a or g or c or t
US-10-135-807-13

```

[illegible]

Oy	1447	tttcggtgtaacgctctccctgaagtaagaaataccgcgcggagcgagatttgaacttgcg	1506
Db	3166	tttcgcggtgtaacgctctccctgaagtaagaaataccgcgcggagcgagatttgaacttgcg	3225
Oy	1507	aagcaacgcgcgcggaggtgctgcggcgagagacgcgccccaataactgcagagcatcaaat	1566
Db	3226	aagcaacgcgcgcggaggtgctgcggcgagagacgcgccccaataactgcagagcatcaaat	3285
Oy	1567	aagcaagaagcgcatccctgaaaggatgacctttttgcgtttctacaactcttcctgcgc	1626
Db	3286	aagcaagaagcgcatccctgaaaggatgacctttttgcgtttctacaactcttcctgcgc	3345
Oy	1627	atactctcaagccatcccccacaagaatacgttaaacctagcctcgtttttgcatacagaaa	1686
Db	3346	atactctcaagccatcccccacaagaatacgttaaacctagcctcgtttttgcatacagaaa	3405
Oy	1687	gcacg 1690	
Db	3406	gcacg 3409	

```

RESULT 4
US-10-146-772-15
; Sequence 15, Application US/10146772
; GENERAL INFORMATION:
; APPLICANT: Short, Jay
; APPLICANT: Weiner, David
; APPLICANT: Chaplin, Jennifer
; APPLICANT: Chi, Ellen
; APPLICANT: Milan, Allen
; APPLICANT: Desantis, Grace
; APPLICANT: Madden, Mark
; APPLICANT: Burk, Mark
; TITLE OR INVENTION: Ntl:lisess
; FILE REFERENCE: Docket No. DIV-0130US
; CURRENT APPLICATION NUMBER: US/10/146, 772
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US 60/309, 006
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 60/351,336
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/300,189
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 09/751,299
; PRIOR FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/254,414
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/173,609
; PRIOR FILING DATE: 1999-12-29
; NUMBER OF SEQ. ID NOS: 386
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 1047
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Obtained from an environmental sample
US-10-146-772-15

```

Query Match	19.58;	Score 349.2;	DB 7;	Length 1047;
Best Local Similarity	61.0%;	Pred. No. 3.9e-86;		
Matches 567;	Conservative	0;	Mismatches 363;	Indels 0;
			Gaps	0;
QY 123	atgcgcacaagaanaatcgtccggcgacgcccgcgtacagggccgcctctcccaactacat	182		
Db 1	atgcacacatcaaaaacaatttagtcgctgagctcgaagccgcccggtaattcttgac	60		
QY 183	ctggcgaacggcgtgttgataaaccctlttagcgtgcgtctgcgaagcccgagatgagggcgt	242		
Db 61	ctggagggcgccataagaacagacatctccctccatttagagagccgccttccaatgagcc	120		

QY	243	gacctctgcgttttggtagaaccttgccggtccggtacatcccttcaacgtctgctggcgc	302
Db	121	aagctacatgcctctcccggaacgtggatctcccggttacaacccctggctggatctggctggac	180
QY	303	gcacacggccgtctgcctgnaaatacagctggccgtctactatgtccaaactcgcctctgcggac	362
Db	181	tcacccgcttggggtcagtcgctcttggctccagcgcgtattttgacaacatccgcctcagctgggt	240
QY	363	agtcagaaagtctcaagcalttgcccaagctgcgcagccagacgttcctgggtattttcatgcacgt	422
Db	241	agtcagaaacacgaagcgcgtacgaacacagctgcgcgcgcacataaagaatttaccgtgctatg	300
QY	423	ggttatagcgagcgccagccgctggcagccttactctggtgcgaatgaccttgatccagccgaag	482
Db	301	ggttatagcgaaacagctggcgcgcgcgtcttactaattgggtccaatccatcttcaacagtcgaag	360
QY	483	ggccagatgctgtgtgcctgcgcgaacatcaaaccttccacatgttttagcgccacgcgtttt	542
Db	361	gggtgaacacgattttctaccgcgcgcgaacatcaagccaaactcatgttcgagcgttaacgcgttt	420
QY	543	ggctgaaggttatgtcccgagatctgattgtgttccgcacacgagcttggtgcgcgtctggctgc	602
Db	421	ggggagagagagacggcagccatcttcttggtatgatatcagagatttgccgcgtctgcgcgcg	480
QY	603	ctgtgcctgcctgggagccacgccttccctctgaagcaagtacgcgtgttaactccagccagaa	662
Db	481	atgtgcctgtctggggaacattctgcacgcgcctcagcaaaatagtcaattcttcagagattgaa	540
QY	663	gacctacacattgcgcctctgcgcgtctcttctctgttagacggcaaacagggccatgcgcct	722
Db	541	caaatcaacttgcctctctctgtccgagctcttctgttatatccgggggcagcctcatgtcacct	600
QY	723	agcgccaaaggctgaacatgtgcctgcgcgaacatctatctcgtttgaagggcagctgtcttacc	782
Db	601	ggcccgactgtgaacaaagccgcgcgcagaccaaattgatgtcagccgaaggccagctgtctgtc	660
QY	783	atgcgcgcacagcagctgtcgtcaccaccccaagaaacacttgacactgctggaagtagtgaacac	842
Db	661	cttgcctctgtgcgcacacgcgtcttcaaaaggatgatcgaattgtctgtatagatgtatccacag	720
QY	843	aacgcctccctgcctgnaaagtctggggcggtacatccatgtattcttgcgcggagcgagacc	902
Db	721	aaagaagcgccttctgcctgcgggaaggttggtgggttccactgatttaacggccccgattggcga	780
QY	903	acattgtctccctacatctgcgcacacagatgcgcgaagccctgtatcatltgcgcacttgaacatg	962
Db	781	ccctgtcgtcaaacgcgtgtgcctgtgaagaagggagggctgttatatgtcgcgtattgtgcctg	840
QY	963	gaagaaaattgcctctgcgcgaagcgcatcaacgacctgtgtggccactatcttcaaaccccgag	1022
Db	841	ggcatgtatttcaatgtgcgaagagctgtgcgcgcgcagctcaggttcaactacgacgcgcgat	900
QY	1023	ggcacccgctctgtgtacgtgcgccttggggcac	1052
Db	901	gtcaactgcgtactatcatcaattccgcgcgc	930
RESULT 5			
US-60-380-737-15			
Sequence 15: Application US/60380737			
GENERAL INFORMATION:			
APPLICANT: Short, Jay			
APPLICANT: Weiner, David			
APPLICANT: Chaplin, Jennifer			
APPLICANT: Chi, Ellen			
APPLICANT: Milan, Aileen			
APPLICANT: Desantis, Grace			
APPLICANT: Madden, Mark			
APPLICANT: Burk, Mark			
APPLICANT: McQuaid, Jeff			
TITLE OF INVENTION: Assay for Detecting the Presence of Nitrites and/or			
FILE REFERENCE: Docket No. DVSA-100405P			

```

CURRENT_APPLICATION_NUMBER: US60/380,737
PRIOR_FILING_DATE: 2002-05-15
PRIOR_APPLICATION_NUMBER: US 60/309,006
PRIOR_FILING_DATE: 2001-07-30
PRIOR_APPLICATION_NUMBER: US
PRIOR_FILING_DATE: 2002-01-22
NUMBER_OF_SEQ_ID NOS: 386
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15
LENGTH: 1047
TYPE: DNA
ORGANISM: unknown
FEATURE:
OTHER INFORMATION: Obtained from an environmental sample
US-60-380-737-15

```

Query Match	19.5%;	Score 349.2;	DB 8;	Length 1047;
Best Local Similarity	61.0%;	Pred. No. 3.9e-86;		
Matches 567;	Conservative	0;	Mismatches 363;	Indels 0;
				Gaps 0;

[illegible]


```

Db 384 tcgscgcgaagctcgaagccgcgaacacgcgtgagcgcgaacccgtgtctcgcgcgaaggcgaacgcatc 443
Oy 560 agatctgattgtctcgcgaacacgcgaagctgagccgcgcgtcgcgtgtccctgtgtctcgtgagga 619
Db 444 ggaacctgagcgtgtgtctcgagacgcgtactacgcgaacaatcgtcgtctgtctgtcgtcgtgagga 5033
Oy 620 cctgtccccccttgagcgaagtacgcgcgtgtatctccacgaacgaagacattacattgcgc 679
Db 504 cctggaagccgcgtctcgaagtaacgcgtatgtactctgcgaacgaagacgaattccattgtcgcgc 5633
Oy 680 ctgcgcgtcccttctcgcgtactcgaacgaacgaacccacatgcgtctcgaagccgaagttgaacat 739
Db 584 ctgcgcgcagcgtcttccgcgtctctacccgcgcgcgcgcgtctacgcgtctcgcgcgaagtgaacaa 6233
Oy 740 ggcgtcctcgcgaactctacttcgtgtgaagcgaatgtcttaccatcgcgcgcgcgaacgtgt 799
Db 624 cgcgcgcgaagctgtatcagcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcac 6833
Oy 800 cgtcacccagagagacactgtgacatgctgtgaagtgtgtgaacacaagaacgcctccctgtcgtaa 859
Db 684 ggtctcgaagagcgtatgcacgaactgtctgtacccgaacccctgtgcgaagcagacagatgtcgt 7433
Oy 860 agtggcgcgcgcgcgcgcgttccatgatattttgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 919
Db 744 ggtcgcgcgcgcgcgcgtctcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 8033
Oy 920 gccacaacgatctgcgaagagccctgtacatctgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 979
Db 804 ggcgaagagagagaggaaggcgtcgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 8633
Oy 960 caagcgcatacaagaccctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1033
Db 864 caagcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 9233
Oy 1040 ggaacctgggcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 109
Db 924 caacgcgaagcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 9833
Oy 1100 agctcccgagccgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 1153
Db 984 gcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 1037

RESULT 9
US-60-380-737-377
: Sequence 377, Application US/60380737
: GENERAL INFORMATION:
: APPLICANT: Short, Jay
: APPLICANT: Weiner, David
: APPLICANT: Chaplin, Jennifer
: APPLICANT: Chi, Ellen
: APPLICANT: Milan, Aileen
: APPLICANT: Desantis, Grace
: APPLICANT: Madden, Mark
: APPLICANT: Burk, Mark
: APPLICANT: McQuaid, Jeff
: TITLE OF INVENTION: Assay for Detecting the Presence Of Nitrites and/or
: FILE REFERENCE: Docket NO.DVSA-1004USP
: CURRENT APPLICATION NUMBER: 2002-05-15
: PRIOR APPLICATION NUMBER: US 60/309,006
: PRIOR FILING DATE: 2001-07-30
: PRIOR APPLICATION NUMBER: US
: PRIOR FILING DATE: 2002-01-22
: NUMBER OF SEQ ID NOS: 386
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 377
: LENGTH: 1050
: TYPE: DNA
: ORGANISM: Unknown
: FEATURE:
: OTHER INFORMATION: Obtained from an environmental sample

```

[illegible]

Query Match	18.68;	Score 332.8;	DB 1;	Length 5772;
Best Local Similarity	92.88;	Pred. No. 2.1e-81;		
Matches 349; Conservative	0;	Mismatches 27;	Indels 0;	Gaps 0;

Accession	Sequence	Position
QY 1267	agagtcgaacctgcagcagcaltgcgaacgttgggtcccaacctgcaccaatgcgaactcagaag	1326
Db 1563	agaattcttcgcgcgcagtagtcgcgcgttcgtccacactgcacccaatgcgaactcagaag	1622
QY 1327	tgaacgcgcgtagcgcgcgcgaatgtagtctgtgggtctcccaatgcgagaatcagggaaatctgc	1386
Db 1623	tgaacgcgcgtagcgcgcgaatgtagtctgtgggtctcccaatgcgagaatcagggaaatctgc	1682
QY 1387	agagctcaataaagaagaagcctcagtcgaagaagcttggtccttcgtttatctgtgt	1446
Db 1683	agagctcaataaagaagaagcctcagtcgaagaagccttggtccttcgtttatctgtgt	1742

